





DEPARTMENT OF DEFENSE
STRATEGIC DEFENSE INITIATIVE ORGANIZATION
WASHINGTON, DC 20301-7100

RM

10 FEB 1986

MEMORANDUM FOR DIRECTOR, TACTICAL INTELLIGENCE SYSTEMS, ODASD(I)

SUBJECT: Security Implications of Computers and Automated Office Equipment (U)

Attached are SDIO's comments provided in response to your letter dated 27 Jan 86, Subject as above.

Robert W. Parker
for ROBERT W. PARKER
Colonel, USA
Director, Resource Management

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WHEN SEPARATE FROM CLASSIFIED ENCLOSURE

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Implications of Expanded Use of
Computers and Automated Office Equipment
Processing Intelligence Information

COMPONENT: Strategic Defense Initiative Organization

DATE: 7 Feb 1986

I. (S) BACKGROUND IDENTIFICATION AND SCOPE OF THE AREA OF
CONCERN IDENTIFIED BY HAC

(S) This response covers only those offices in the Strategic Defense Initiative Organization involved in TIARA. Within SDIO, TIARA processing is limited to two Directorates - Sensors and Resource Management. (The Sensors Directorate is responsible for the SATKA Program Element, while Resource Management is involved on funding and related issues for this and other SDIO Program Elements.)

(S) The two offices mentioned above initially had only a couple word processors upon the formation of SDIO. Currently, SENSORS has 3 Xerox 860 word processors and 13 PC's while Resource Management has 2 Xerox word processors and 13 PC's. Over the next three years the number of word processors and PC's in these two Directorates will probably double. (Resource Management also runs a HP-3000 minicomputer, but it is limited to unclassified operation in supporting SDIO as a whole. It is unrelated to TIARA processing discussed in this summary.)

(U) The disc storage capacity of the Xerox 860 word processors is 300,000 bytes (approximately 300 pages) on each of two (one data) floppy drives. The PC's came with two (one for data) 360,000 byte floppy disc drives. Plans in the foreseeable future include upgrading several of the PC's by replacing one floppy disc drive with two half-height removable cartridge hard disc drives each with 5,000,000 byte capacity.

(U) The comparative data disc storage capacity is as follows: the Xerox 860 word processor handles approximately 300 pages of storage, and the PC's with floppies handle approximately 360 pages of storage, and the PC's with hard disc cartridges will handle about 10,000 pages of storage.

II. (S) ASSESSMENT OF THE CURRENT RISKS ASSOCIATED WITH USING
THESE SYSTEMS AND A GENERAL DESCRIPTION OF SECURITY MEASURES
EMPLOYED TO LIMIT THE RISKS

(S) The TIARA processing that is done is very low volume and seasonal. (Most of SENSORS and Resource Management activities and processing is in the SDI context and considered to be other than in response to TIARA reporting requirements.) Basically, TIARA processing involves reformatting about 20 pages of summary data similar to that contained in the Congressional Descriptive Summary and is limited to a classification of collateral SECRET. This occurs basically in the first half of

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the fiscal year, to include the question and answer exchanges (several pages each) that occur following the submission of the summary. Processing occurs mainly on the Xerox 860's (stand-alone) although some PC involvement (also stand-alone) occurs. There are no special software features in either system type. The fact that both elements are in an open commercial building is a danger due to potential access. Neither Directorate has open storage areas for classified material, so caution must be taken to secure classified media when leaving work areas unattended.

(S) Security measures involve procedural, personnel, and physical. All PC's and Xerox word processors are TEMPEST approved models. Cleared personnel are present with all classified material in use. Access to work areas is controlled at the Directorate entrance and all visitors are identified and logged prior to being permitted entry. Classified media is marked and is secured in safes prior to leaving, to include all diskettes dealing with TIARA. No special accounting techniques are used for TIARA information within SDIO, however, since it is very low volume and of a collateral summary nature classified no higher than SECRET.

(U) User training courses are regularly conducted to ensure that PC operators are taught the proper way to use the software packages and safeguard against accidental corruption of data. Xerox 860 training is handled by "side saddle OJT".

(U) PC and Xerox 860 hardware maintenance is via a standing maintenance contract. Future systems will be handled the same way.

III. (C) SUMMARY OF ON-GOING EFFORTS TO REDUCE THESE RISKS HIGHLIGHTING ANY SHORTFALLS THAT NEED TO BE ADDRESSED

Several efforts are ongoing to further reduce risks. SENSORS is being moved to the Pentagon in about a month, which will improve the physical security of the working area for that Directorate. The remainder of SDIO will move to the Pentagon as well in about a year. Pentagon office space access and layout is being planned with physical security considerations in mind. As an enhancement to personnel security, SDIO participates in the DOD pilot Counter-intelligence Security Polygraph Program with selected SDIO personnel receiving random polygraphs. User education on proper marking and safeguarding of magnetic media is ongoing and will continue. TEMPEST equipment will continue to be the preferred item for purchase as hardware acquisitions continue. Software considered for acquisition will continue to be evaluated for utility, reliability, and simplicity. Current command support is ensuring adequate budget and interest to realizing program objectives in the ADP office support area.

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